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TITLE: Nutritive food is obtained by separately mixing Shiitake mushroom powder, Angelica keiskei powder, casein-phosphopeptide and natural calcium, with finely powdered Hizikia fusiforme, and granulating the mixture

## PATENT-ASSIGNEE:

ASSIGNEE

CODE

OKUGAWA H

OKUGI

PRIORITY-DATA: 1999JP-0364695 (December 22, 1999)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2001178407A	December 22, 1999	1999JP-0364695	

INT-CL (IPC): A23L 1/30; A23L 1/305; A23L 1/337

ABSTRACTED-PUB-NO: JP2001178407A

## BASIC-ABSTRACT:

NOVELTY - Finely powdered Hizikia fusiforme is separately mixed with Shiitake mushroom powder rich in natural vitamin D, Angelica keiskei powder rich in natural vitamin K, casein-phosphopeptide which increases calcium absorption and natural calcium, and granulated, to obtain a nutritive food.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for manufacture of Hizikia fusiforme granules.

USE - For use in manufacture of Hizikia fusiforme granules (claimed).

ADVANTAGE - The health food is easily portable, effectively granulated and is widely used in beverages. The food supplies essential vitamins such as D and K, and increases calcium absorption, hence improves calcium deposition in bones.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NUTRIENT FOOD OBTAIN SEPARATE MIX SHIITAKE MUSHROOM POWDER ANGELICA  
POWDER CASEIN NATURAL CALCIUM FINE POWDER GRANULE MIXTURE

DERWENT-CLASS: D13

CPI-CODES: D03-A04; D03-F06; D03-H01G; D03-H01L; D03-H01T; D03-H02;

SECONDARY-ACC-NO:

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# PATENT ABSTRACTS OF JAPAN

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(21)Application number : 11-364695

(71)Applicant : OKUKAWA HIDEO

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(72)Inventor : OKUKAWA HIDEO

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(54) GRANULAR FORMED PRODUCT OF HIZIKIA FUSIFORME AND METHOD FOR PRODUCING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a supplementary health food made easily drinkable and conveniently portable by pulverizing Hizikia fusiforme followed by finishing the resultant powder in granular form (triangular tablet).

SOLUTION: This supplementary health food easily drinkable and conveniently portable is obtained by further pulverizing Hizikia fusiforme which has been eaten since old times so as to increase its absorption as it is poor in absorption, and by adding to the resultant powder thus pulverized Cortinellus shiitake powder (natural vitamin D), Angelica keiskei powder (natural vitamin K), CPP (casein phosphopeptide to increase absorption of calcium), Auricularia auricula powder (natural calcium) and the like followed by finishing the resultant powder in the granular form (triangular tablet).

CLAIMS

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## [Claim(s)]

[Claim 1] The health supplement which added the shiitake mushroom powder which commits natural vitamin D to the impalpable powder of \*\*\*\*\*, and was finished in the shape of a grain.

[Claim 2] The health supplement which added the Angelica keiskei powder which commits a natural vitamin K to the impalpable powder of \*\*\*\*\*, and was finished in the shape of a grain.

[Claim 3] The health supplement which added CPP (casein phospho peptide) which raises absorption of calcium to the impalpable powder of \*\*\*\*\*, and was finished in the shape of a grain.

[Claim 4] The health supplement which added what used the Jew's-ear as impalpable powder to the impalpable powder of \*\*\*\*\*, and was finished in the shape of a grain.

## DETAILED DESCRIPTION

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### [Detailed Description of the Invention]

[0001]

[Field of the Invention] When it drinks and \*\*\*\*\* in the first place if this invention is only the powder of \*\*\*\*\*, and drinker \*\*\*\*\* continuation cannot be performed on it and it is powder, it is disadvantage to a cellular phone.

[0002]

[Problem(s) to be Solved by the Invention] since [ which dries and cancels this with much variation nonuniformity etc. for every place of production in the case of edible brown algae ] it is generally marketed, it has steamed once -- having -- the post heating -- a style -- or solar drying is carried out. Although \*\*\*\*\* is used more as food from ancient times and it has been made vegetables boiled hard with soy etc., digestion is bad, and since it does not have the fusibility within an intestinal tract, it is impossible to make the body carry out absorption intake of the nutrition component, and it is deficient in the value in use as food or its raw material.

[0003] Moreover, even if it eats by vegetables boiled hard with soy etc., since digestion is bad, most is discharged as stools. To \*\*\*\*\*, a mineral component is especially abundant, KARYUUMU, natrium, calcium, magnesium, Lynn, iron, a vegetable fiber, etc. are abundant, and the natural food with which the top calcium and magnesium are contained with 2 to 1 and sufficient balance is only \*\*\*\*\*. There is especially calcium also 14 times of cow's milk. Therefore, a bone is not formed only by taking cow's milk, but calcium and magnesium are taken by 2 to 1, and a bone is formed by carrying out moderate motion.

[0004]

[Means for Solving the Problem] solution of such [ this invention ] a technical problem -- planning -- \*\*\*\* -- the impalpable powder of \*\*\*\*\* -- being granular (triangular lock) -- by carrying out, it is easy to drink and continuation is possible, and it is a finish wooden-clogs health supplement so that conveniently [ also carrying ].

[0005]

[Embodiment of the Invention] the gestalt of implementation of this invention -- first -- \*\*\*\*\* -- impalpable powder -- carrying out -- further -- shiitake mushroom powder, the Angelica keiskei powder, CPP, and Jew's-ear powder -- adding -- being granular (triangular lock) -- carrying out -- upgrading -- drinking -- being easy -- a cellular phone -- convenient -- having made -- it is a health supplement.

[0006]

[Effect of the Invention] As mentioned above, as are explained, and the health supplement of this invention serves for the powder of shiitake mushroom to be natural vitamin D, and to raise absorption of calcium as described at (claim 1) it is not only convenient for the cellular phone which is only merely easy to drink, but and (claim 2) is described, the Angelica keiskei powder commits a natural vitamin K, and it is effective in helping for calcium to carry out deposition to a bone. therefore, this \*\*\*\*\* -- being granular (triangular lock) -- it is the health supplement whose effectiveness improved further by adding natural vitamin D, K, a CPP (casein phospho peptide) Jew's-ear, etc.

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LP11

(54) 【発明の名称】 鹿尾菜の粒状成型物及びその製造方法

(57) 【要約】

【課題】 鹿尾菜を微粉末にし、さらにそれを粒状（三角錠）に仕上げ、飲み易くかつ、携帯にも便利にようにした健康補助食品を目的とする。

【解決手段】 古来より食されている鹿尾菜は消化吸収が悪い為、吸収を良くする為さらに微粉末にし、それにシイタケ粉末（天然のビタミンD）アシタバ粉末（天然のビタミンK）、CPP（カゼインホスホペプチド、カルシウムの吸収を高める）きくらげ粉末（天然のカルシウム）等を加え、さらに粒状（三角錠）に仕上げ飲み易くかつ携帯にも便利な健康補助食品。

【特許請求の範囲】

【請求項1】鹿尾菜の微粉末に天然のビタミンDの働きをするシイタケ粉末を加え粒状に仕上げた健康補助食品。

【請求項2】鹿尾菜の微粉末に天然のビタミンKの働きをするアシタバ粉末を加え粒状に仕上げた健康補助食品。

【請求項3】鹿尾菜の微粉末にカルシウムの吸収を高めるCPP（カゼインホスホペプチド）を加え粒状に仕上げた健康補助食品。

【請求項4】鹿尾菜の微粉末にきくらげを微粉末にしたものを加え粒状に仕上げた健康補助食品。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】 この発明は、鹿尾菜の粉末だけだと第一に飲みづらいし、又飲みずらければ継続が出来ない、その上に粉末だと携帯に不便。

【0002】

【発明が解決しようとする課題】 一般に市販されている干しヒジキの場合、産地毎にバラツキ・ムラ等が多い、これを解消するために一度蒸し上げられ、その後熱風又は天日乾燥されている。鹿尾菜は古来より食品として用いられており、煮付け等にされてきたが、消化吸収が悪く、腸管内での可溶性を有しないため、その栄養成分を人体に吸収摂取させることが不可能であり、食品やその素材としての使用価値に乏しい。

【0003】 又、煮付け等で食しても消化吸収が悪い為、大半が大便として排出される。鹿尾菜にはミネラル成分が豊富で特に、カリウム、ナトリウム、カルシ

ウム、マグネシウム、リン、鉄、植物繊維等が豊富で、その上カルシウムとマグネシウムが2対1とバランス良く含まれている天然の食品は鹿尾菜だけである。特にカルシウムは牛乳の14倍もある。よって牛乳を採っただけでは骨は形成されずカルシウムとマグネシウムを2対1で採り、適度な運動をする事によって骨は形成される。

【0004】

10 【課題を解決するための手段】 本発明はこのような課題の解決を企図しており、鹿尾菜の微粉末を粒状（三角錠）にすることにより、飲みやすく、継続が出来、携帯にも便利のように仕上げた健康補助食品である。

【0005】

【発明の実施の形態】 この発明の実施の形態は、まず鹿尾菜を微粉末にして、さらに、シイタケ粉末、アシタバ粉末、CPP、きくらげ粉末を加え粒状（三角錠）にすることによりパワーアップし、飲み易くなり、携帯に便利にした健康補助食品である。

【0006】

20 【発明の効果】 以上、説明したように、この発明の健康補助食品は、ただ単に飲みやすい、携帯に便利だけではなく、（請求項1）に記してあるようにシイタケの粉末は天然のビタミンDであり、カルシウムの吸収を高める働きをし、又（請求項2）に記してあるようにアシタバ粉末は天然のビタミンKの働きをし、骨にカルシウムが沈着するのを助ける効果がある。したがってこの鹿尾菜の粒状（三角錠）は天然のビタミンD、K、CPP（カゼインホスホペプチド）きくらげ等を加える事によりさらに効果が向上した健康補助食品である。